

V&V Reference Report

L2 ASCDS Version : 10.9.2

Observation 19397 - L2 Version 2
Chandra X-Ray Center

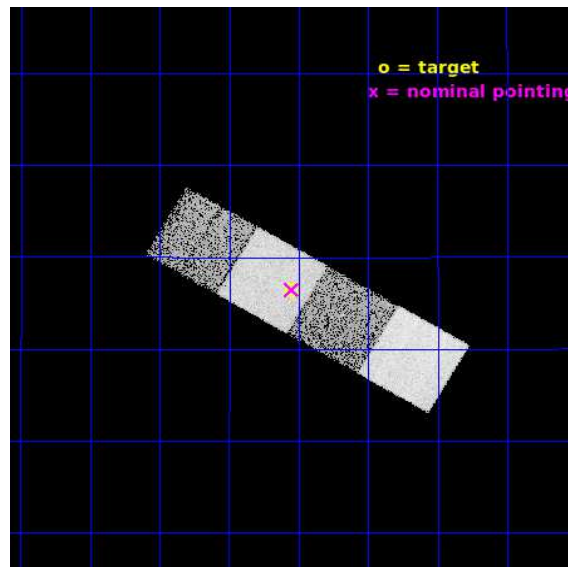
L2 Processing Date : Oct 25 2020

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1 Front

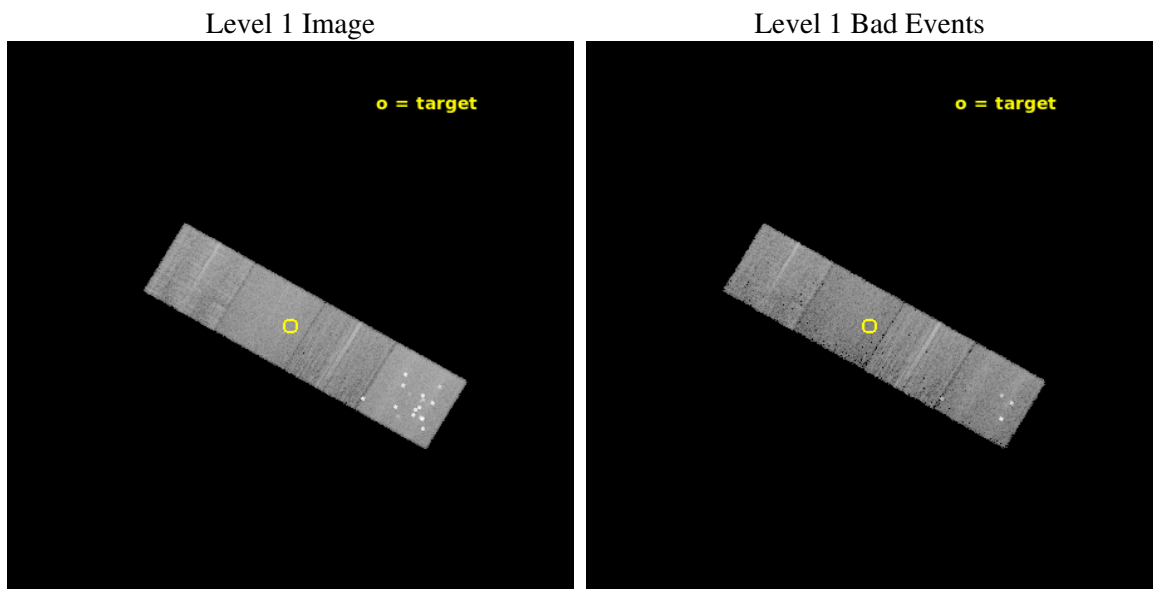
seq_num	601354	Sequence number
obs_id	19397	Observation id
title	Spiral galaxies of the Virgo cluster	Proposal title
observer	Roberto Soria	Principal investigator
object	NGC 4298	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	185.386667	Observer's specified target RA [deg]
dec_targ	14.606111	Observer's specified target Dec [deg]
ra_nom	185.38712111803	Nominal RA [deg]
dec_nom	14.607723828199	Nominal Dec [deg]
roll_nom	210.26368746118	Nominal Roll [deg]
revision	2	Processing version of data
ontime	7910.1602650881	Sum of GTIs [s]
livetime	7806.8081978494	Livetime [s]
ontime5	7910.1192251444	Sum of GTIs [s]
ontime6	7910.0781850815	Sum of GTIs [s]
ontime7	7910.1602650881	Sum of GTIs [s]
ontime8	7900.6139343977	Sum of GTIs [s]
l2events	86493	Number of level 2 events



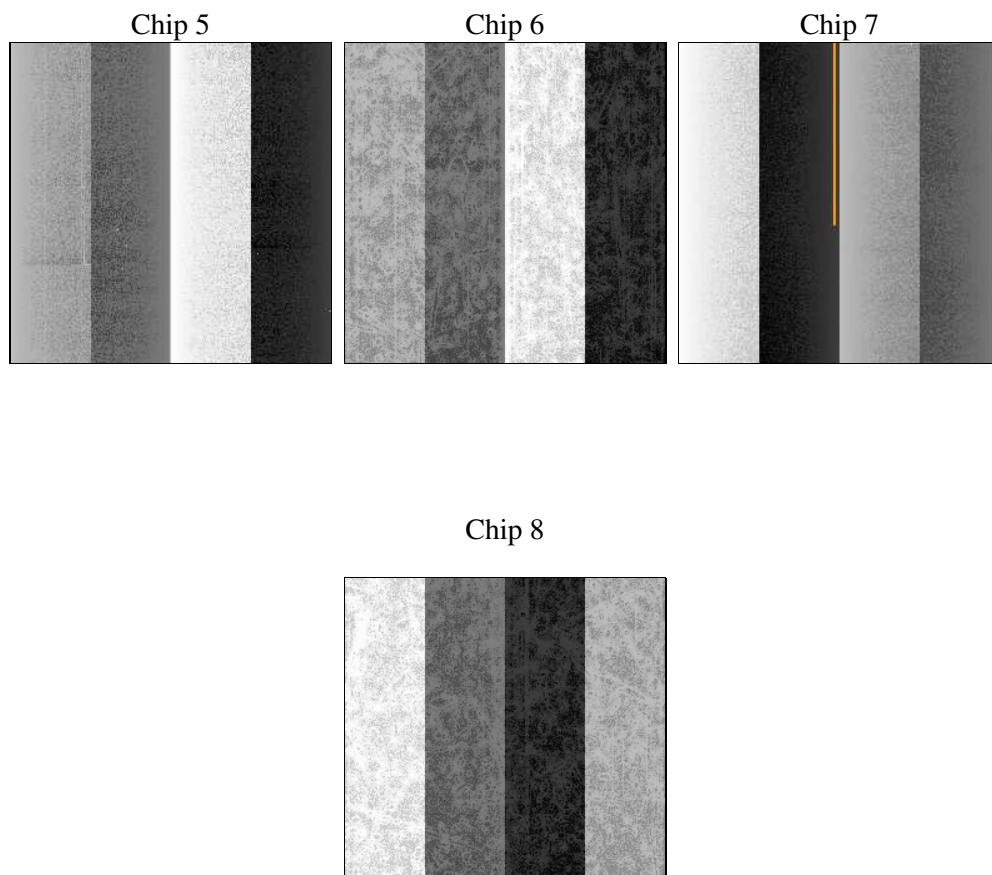
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	8000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.2	Processing system revision	ontime	7910.1602650881	Sum of GTIs [s]
caldsver	4.9.3	 	ontime5	7910.1192251444	Sum of GTIs [s]
date	2020-10-25T11:35:44	Date and time of file creation	ontime6	7910.0781850815	Sum of GTIs [s]
revision	2	Processing version of data	ontime7	7910.1602650881	Sum of GTIs [s]
			ontime8	7900.6139343977	Sum of GTIs [s]
			l1events	344370	Number of level 1 events

2.1.4 Events

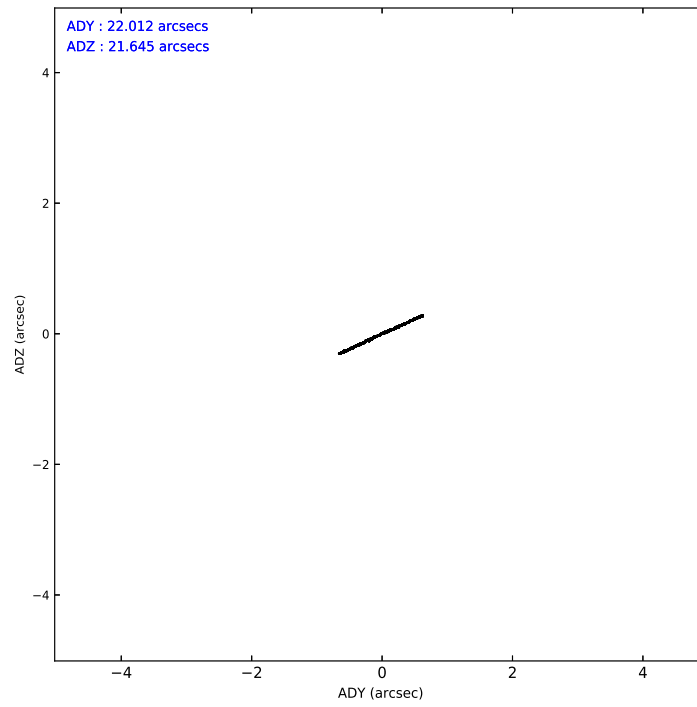
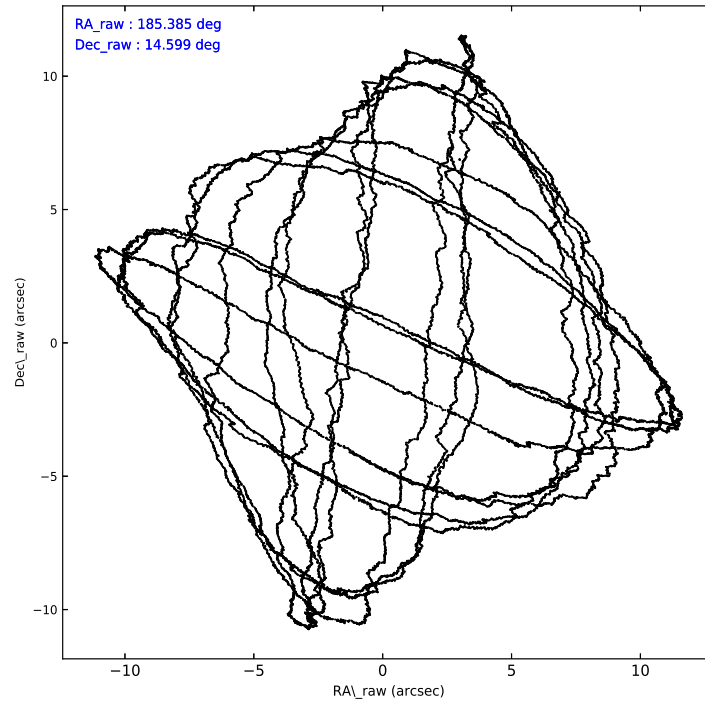
	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	125914	62541	76105	79810
rejected events	55230	55876	43191	59848
rejected %	43%	89%	56%	74%

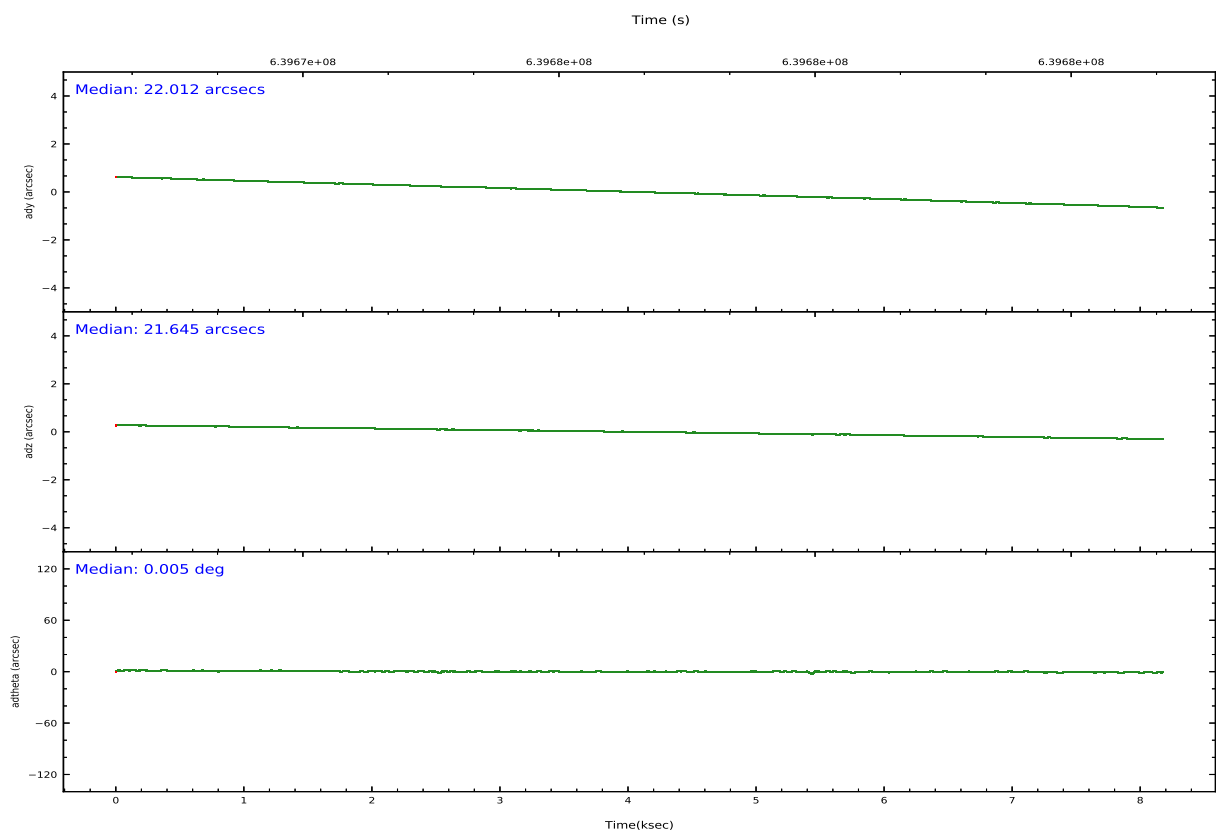
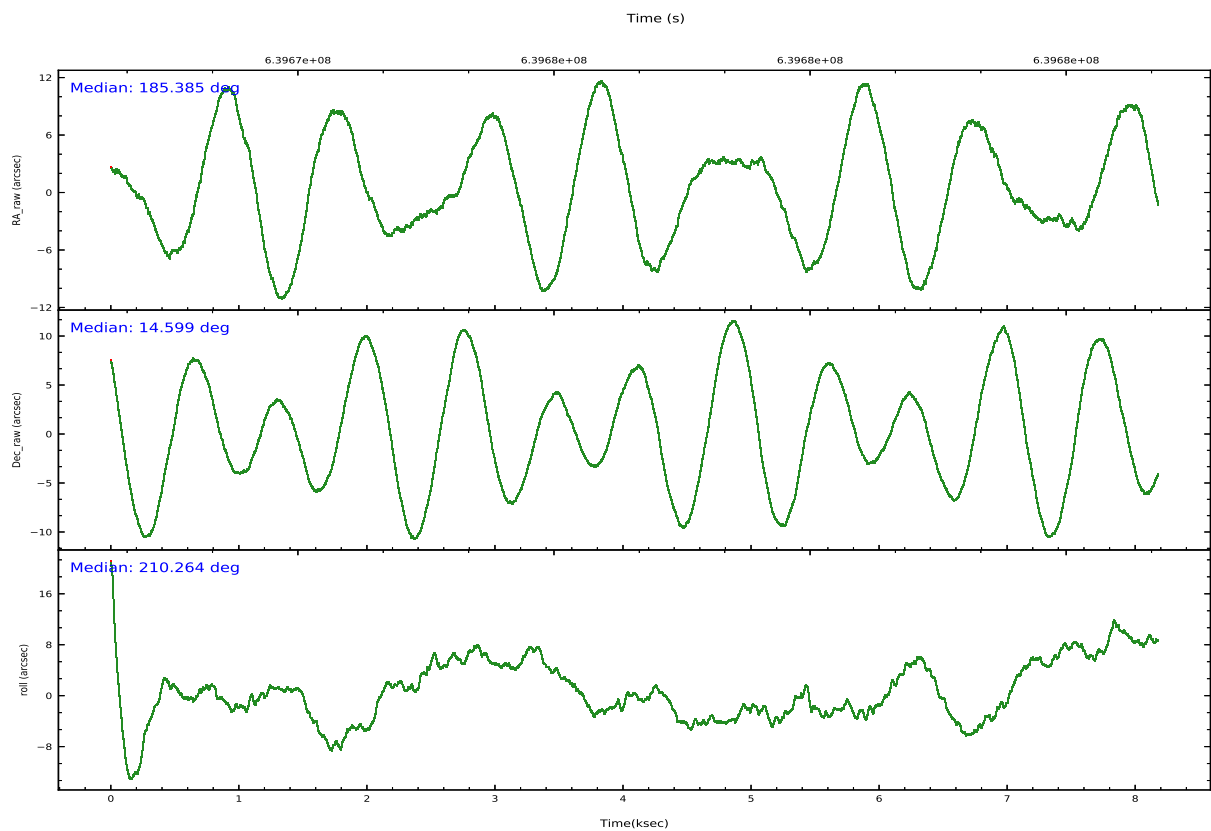
	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	20893	1905	2848	5686
	16%	3%	3%	7%
grade 1 events	256	23	124	72
	0%	0%	0%	0%
grade 2 events	19118	1886	6728	4905
	15%	3%	8%	6%
grade 3 events	1845	556	2668	2047
	1%	0%	3%	2%
grade 4 events	1894	559	2599	1956
	1%	0%	3%	2%
grade 5 events	7002	2383	7470	3948
	5%	3%	9%	4%
grade 6 events	26990	1765	18094	5377
	21%	2%	23%	6%
grade 7 events	47916	53464	35574	55819
	38%	85%	46%	69%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar version number	8	8
Detector	ACIS-5678	ACIS-5678	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	185.398425	185.38712111803	Subarray requested	NONE	NONE
[deg] Pointing Dec	14.623223	14.607723828199	Alternating exposures requested	N	N
[deg] Pointing Roll	210.116057	210.26368746118	[s] Primary exposure time	0.000000	3.1
[mm] SIM focus pos	-0.684267	-0.6828225247311905			
[mm] SIM defocus	0	0.001444936568705701			
[mm] SIM translation stage pos	-190.132523	-190.1425803651734			
[mm] SIM translation stage offset	0	0.01005778216563158			
[s] Observation start time (MET)	639672719.184000	639672343.06654			
Observation start date	2018-04-09T14:50:50	2018-04-09T14:45:43			
[s] Observation end time (MET)	639680719.184000	639681345.12957			
Observation end date	2018-04-09T17:04:10	2018-04-09T17:15:45			
Read mode	TIMED	TIMED			

2.3 Aspect



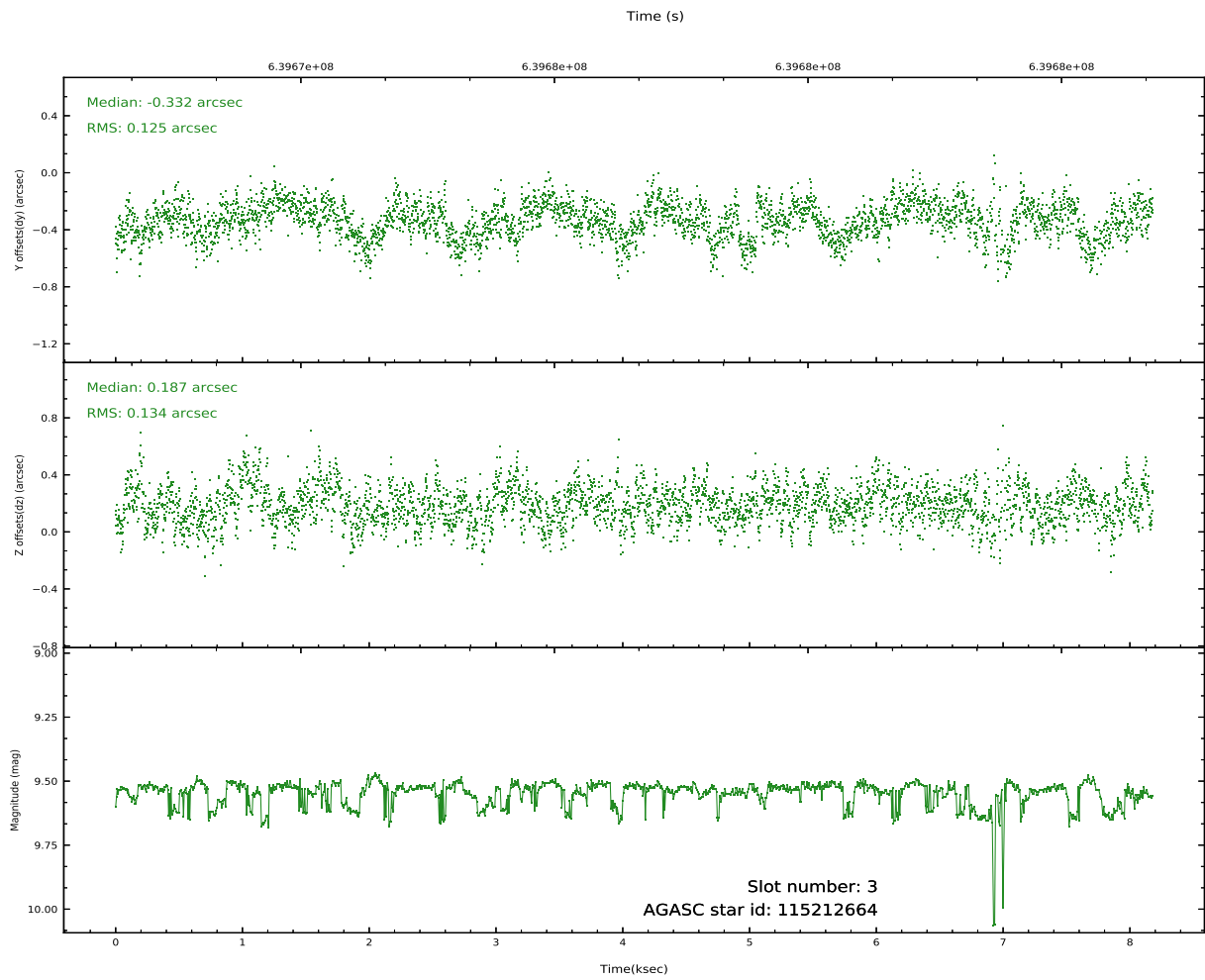
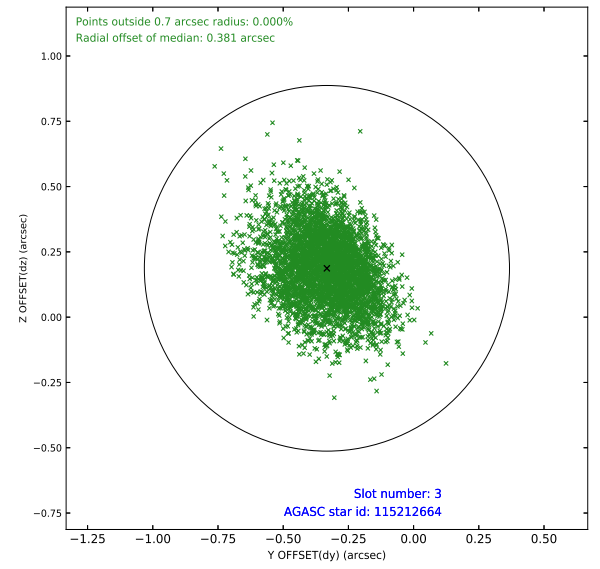
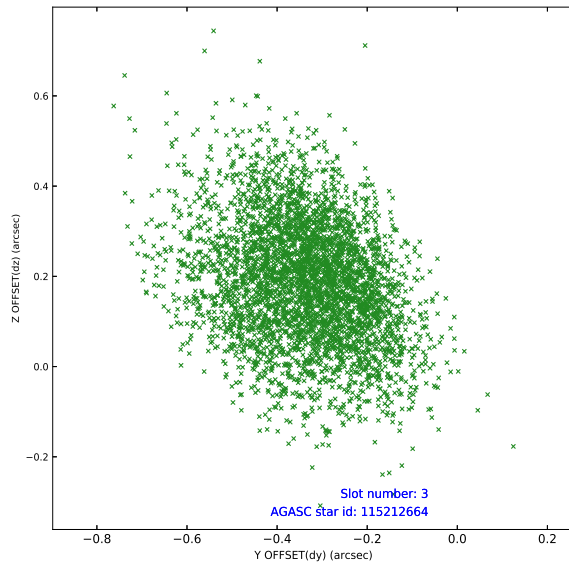


Slot Statistics

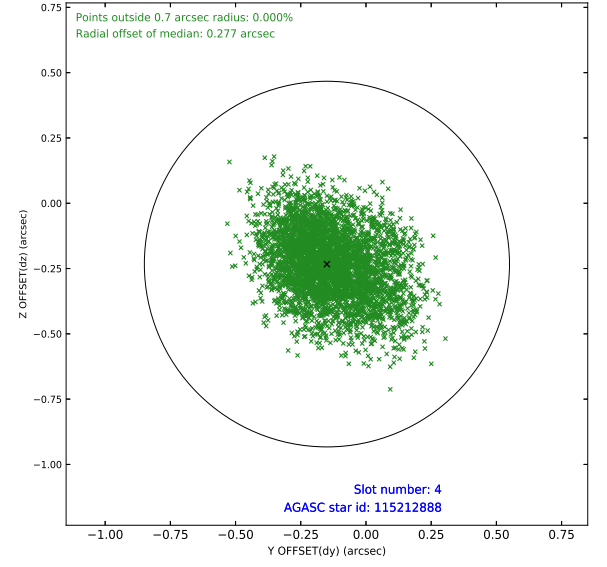
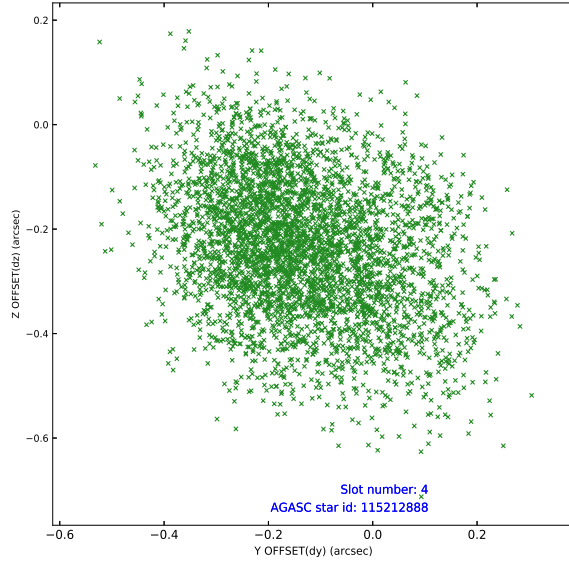
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-2	7.13	1996	1.000	0.171	-0.118	0.013	0.022	0.000000	0.000000	-775.27	-1743
1	FID		ACIS-S-4	7.26	1995	1.000	0.065	-0.050	0.012	0.020	0.000000	0.000000	2137.88	164
2	FID		ACIS-S-5	7.25	1996	1.000	-0.265	0.177	0.019	0.031	0.000000	0.000000	-1827.38	159
3	GUIDE	used	115212664	9.53	3950	1.000	-0.332	0.187	0.192	0.319	186.112214	14.500161	-1930.53	1629
4	GUIDE	used	115212888	9.10	3986	1.000	-0.150	-0.233	0.208	0.335	184.962096	14.383434	1748.86	-17
5	GUIDE	used	115213096	9.62	3982	1.000	0.184	0.050	0.252	0.432	185.485027	14.844352	-658.75	-535
6	GUIDE	used	115215728	9.62	3989	1.000	0.076	-0.038	0.223	0.361	185.140530	13.751112	2355.43	2264
7	GUIDE	used	189403680	8.83	3985	1.000	0.214	0.054	0.165	0.284	185.171503	15.144043	-257.84	-2016

2.4 Star Slots

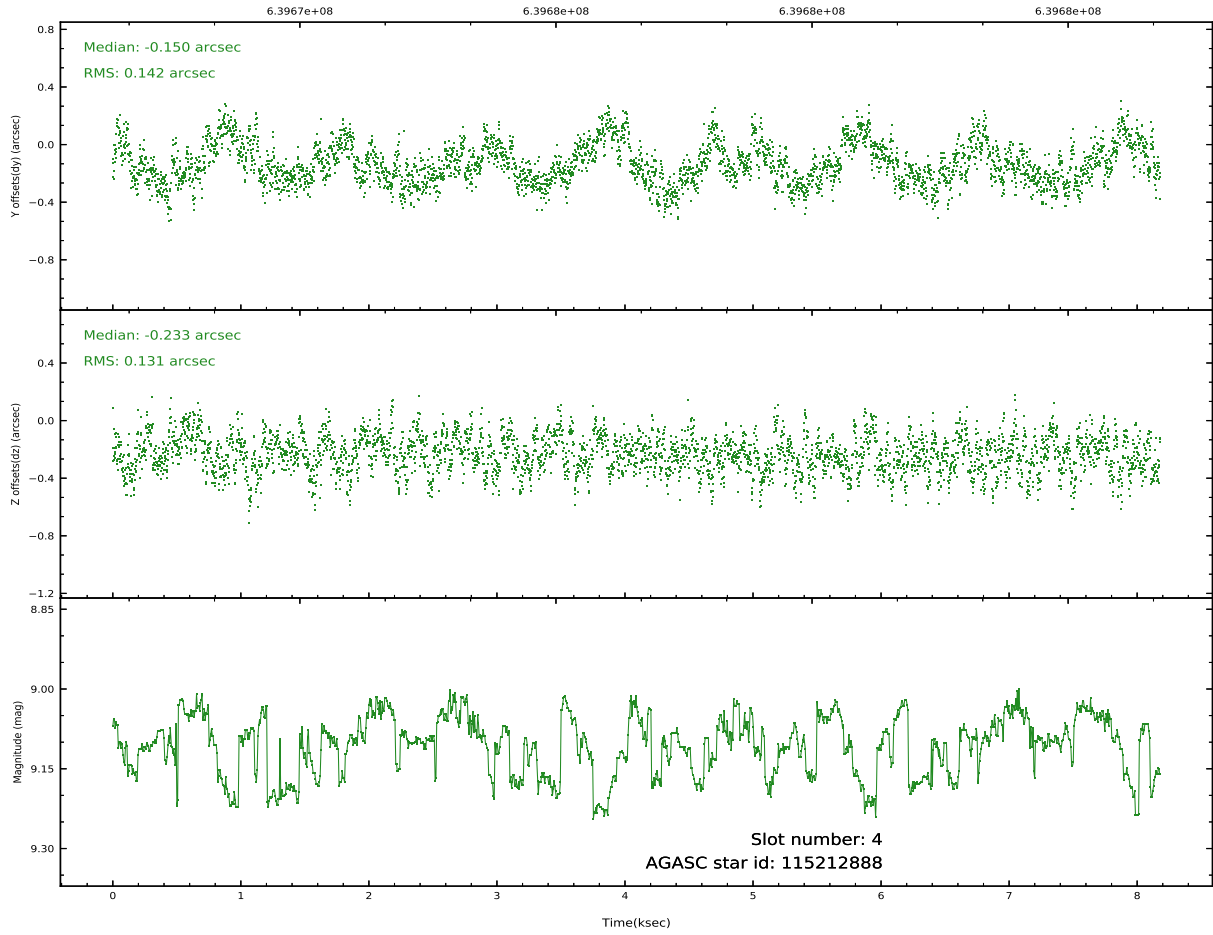
2.4.1 Slot 3



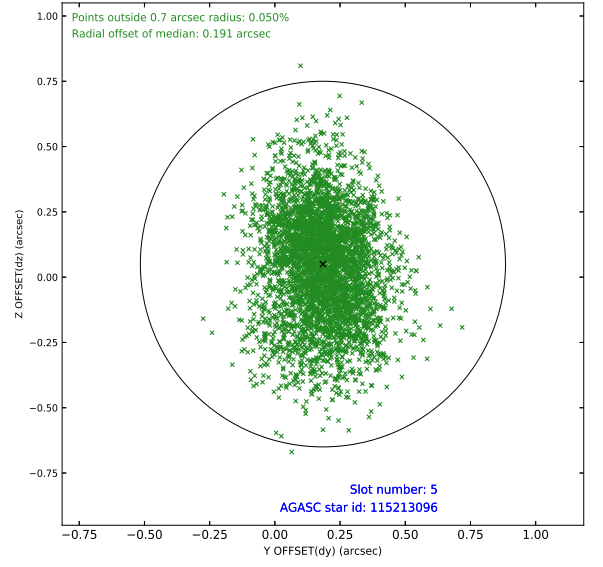
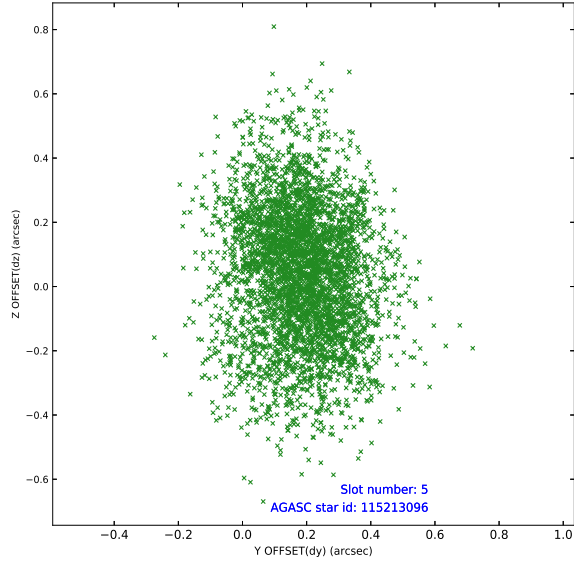
2.4.2 Slot 4



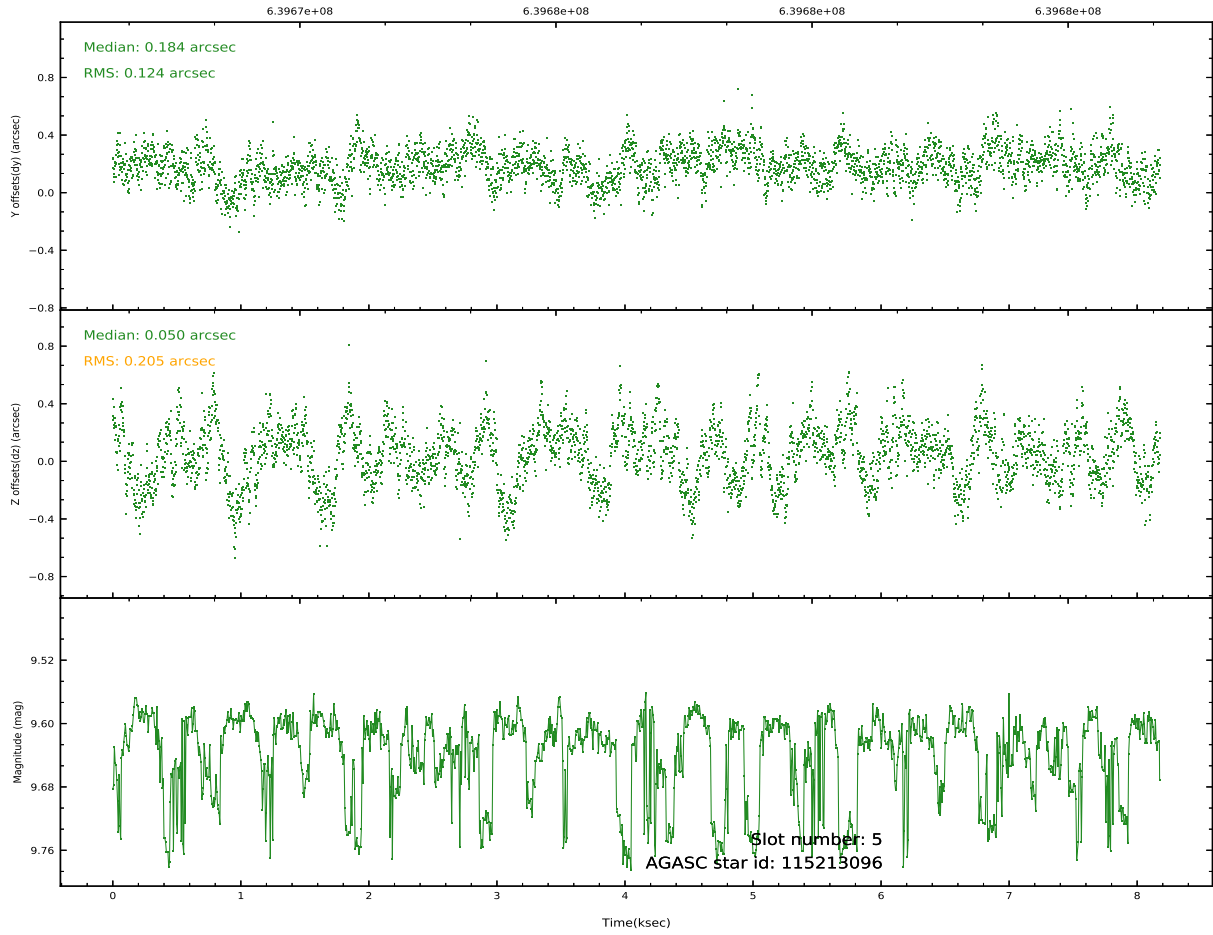
Time (s)



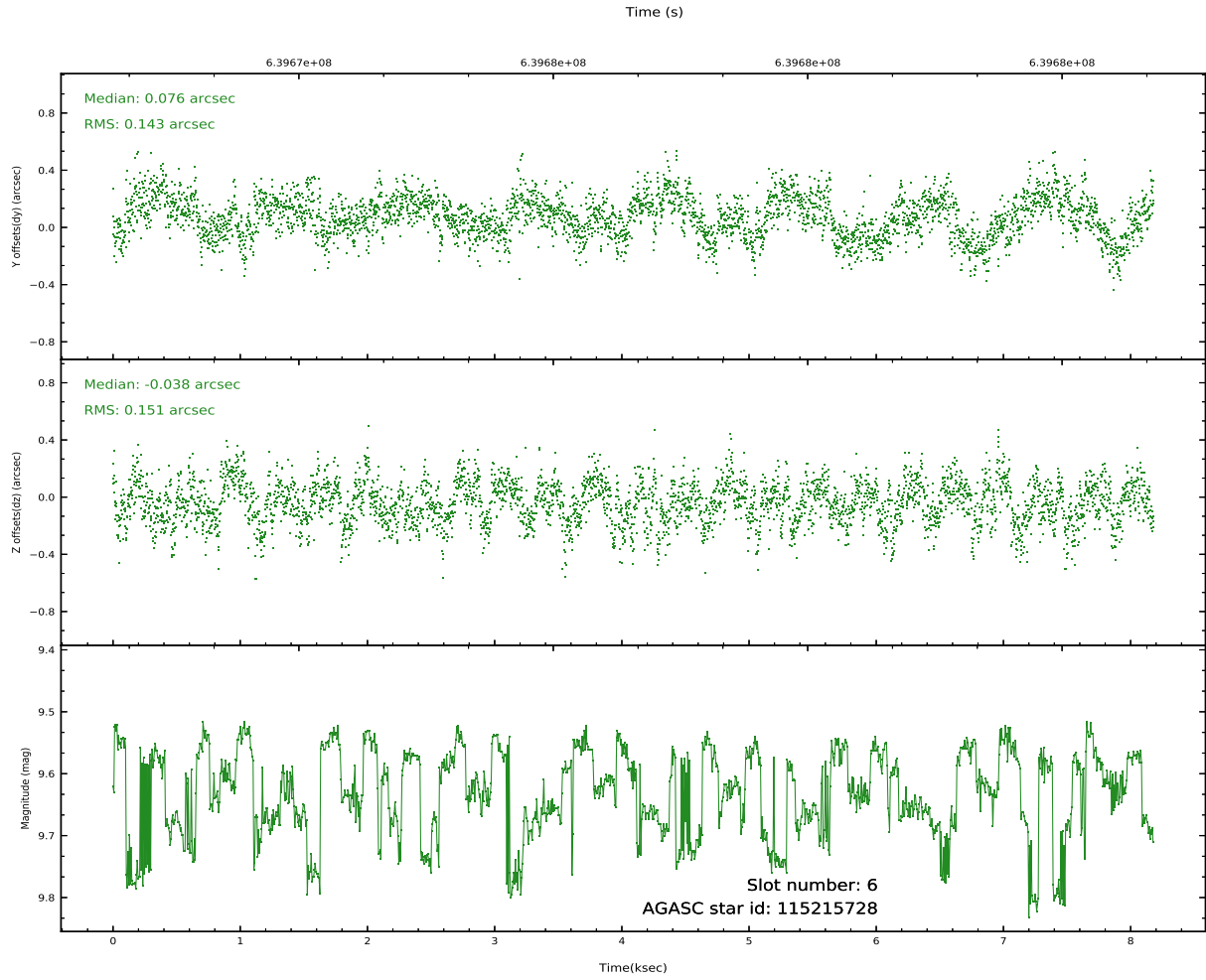
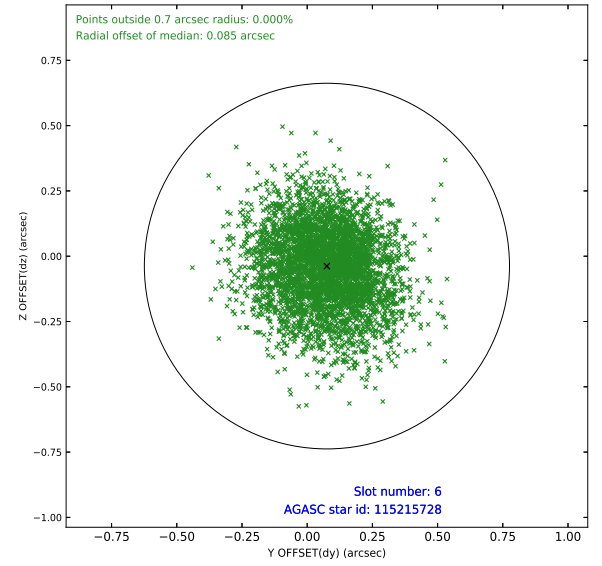
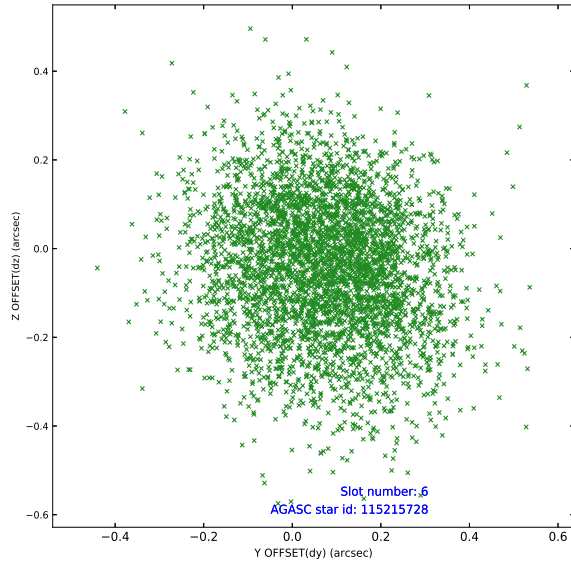
2.4.3 Slot 5



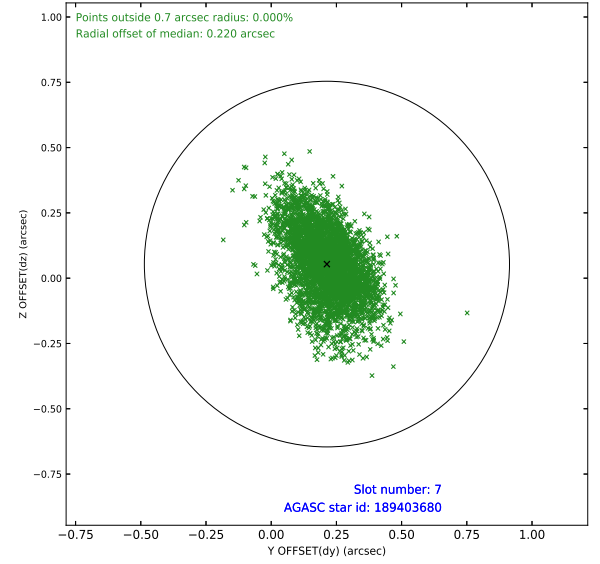
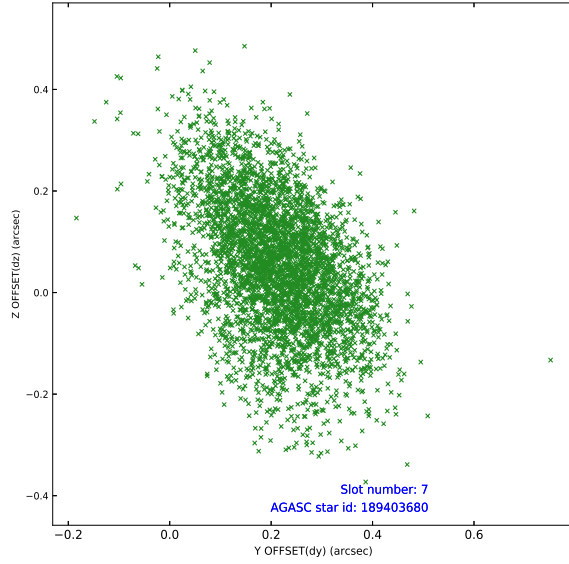
Time (s)



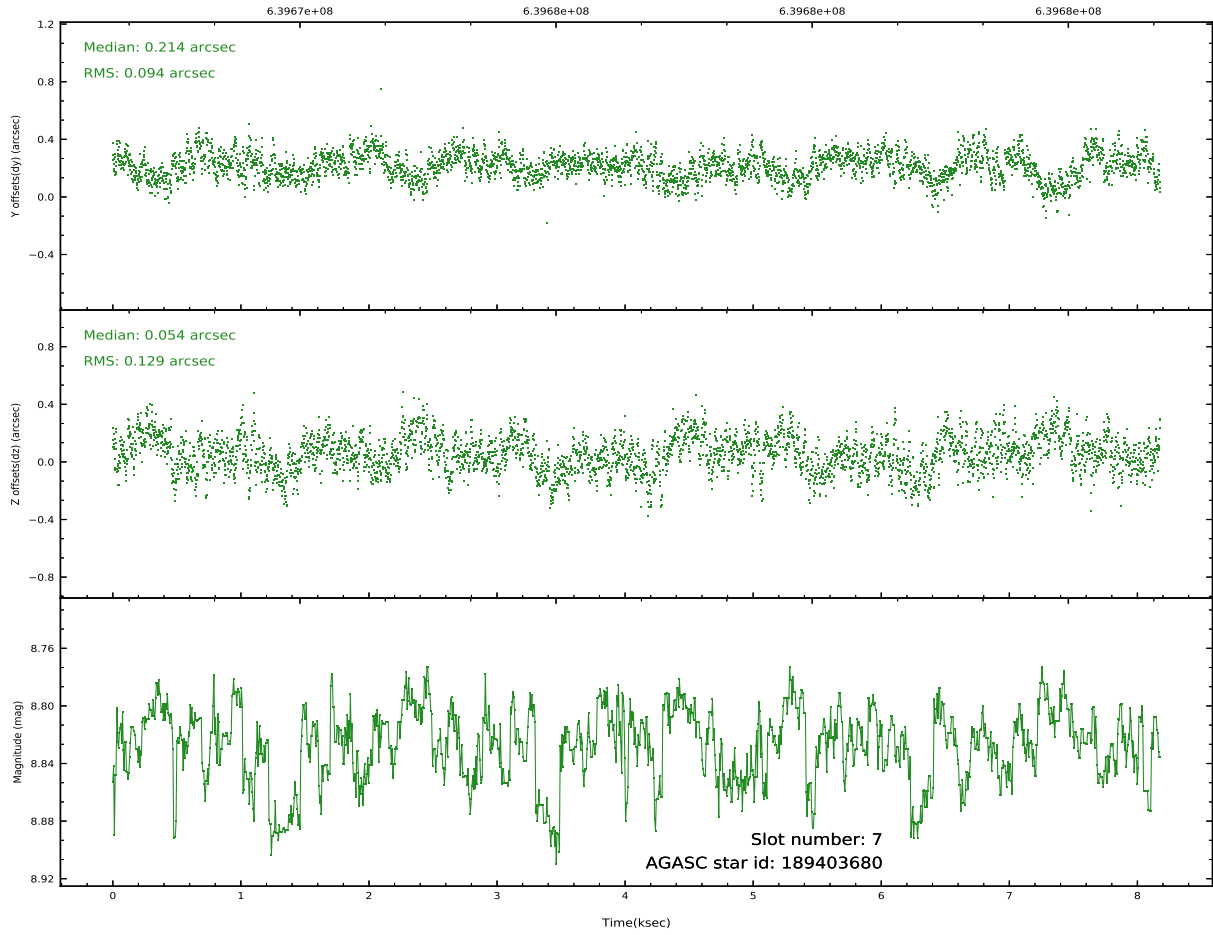
2.4.4 Slot 6



2.4.5 Slot 7

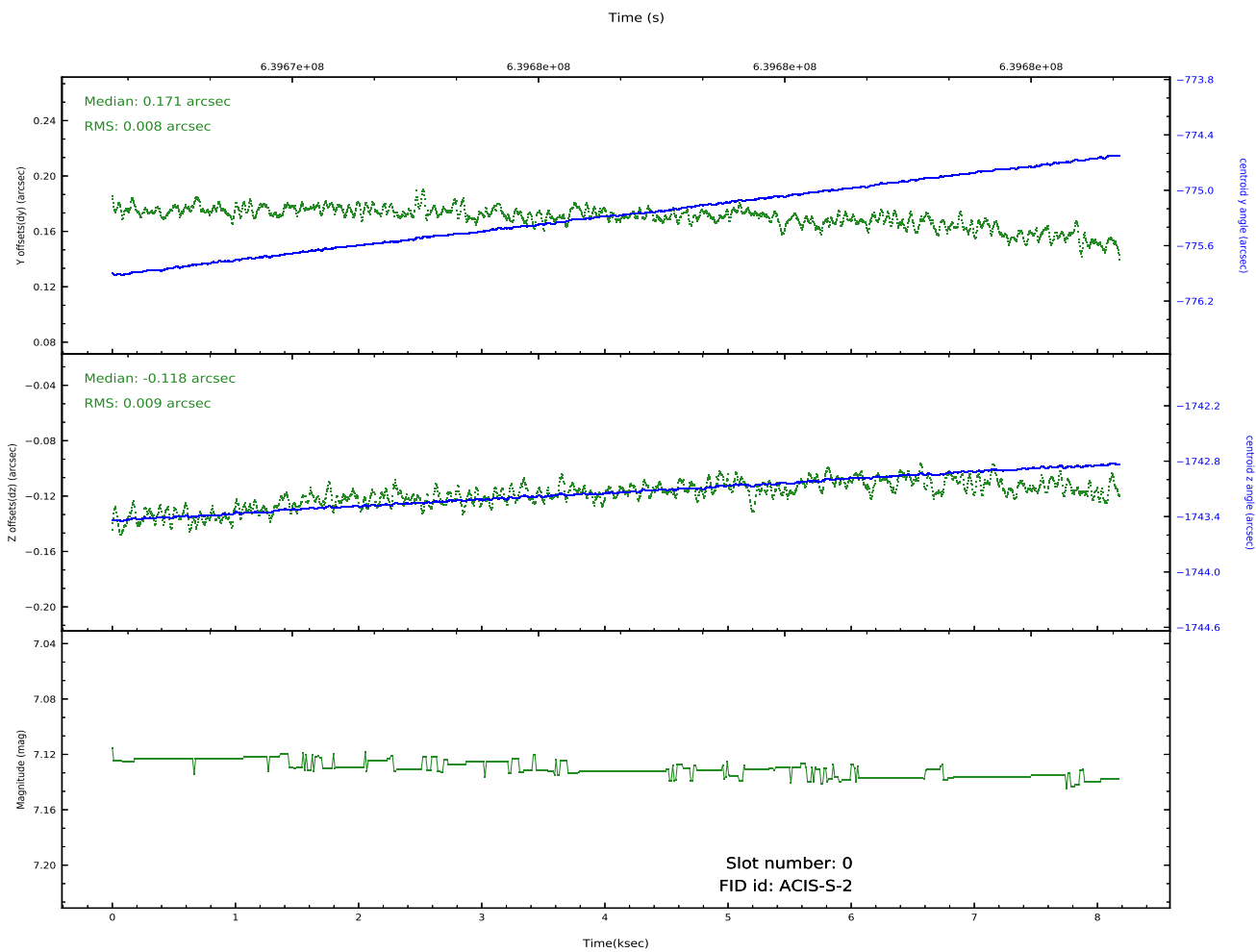
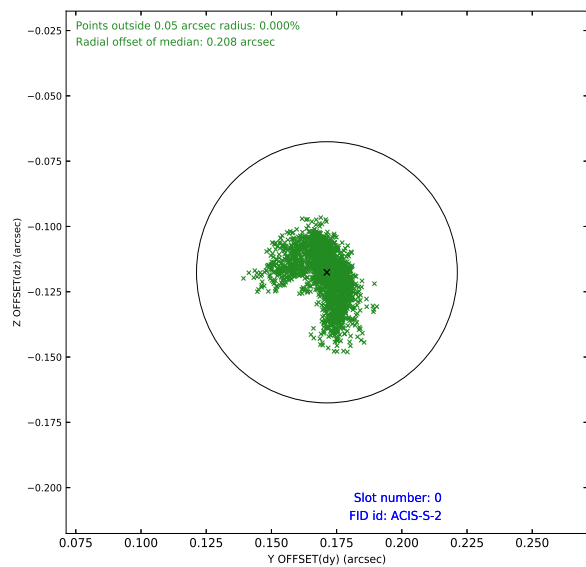
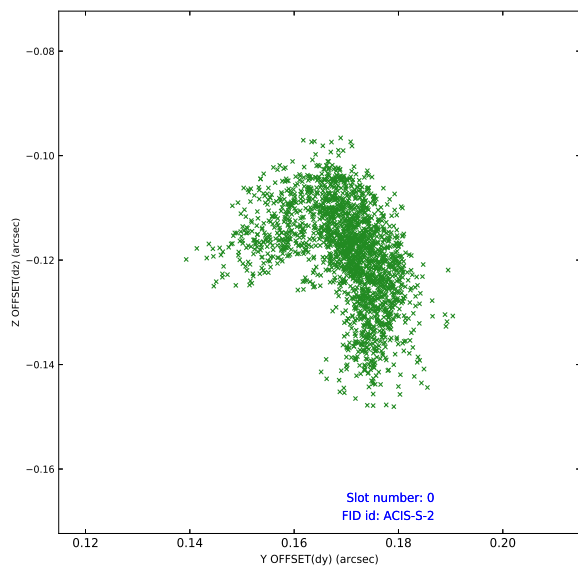


Time (s)

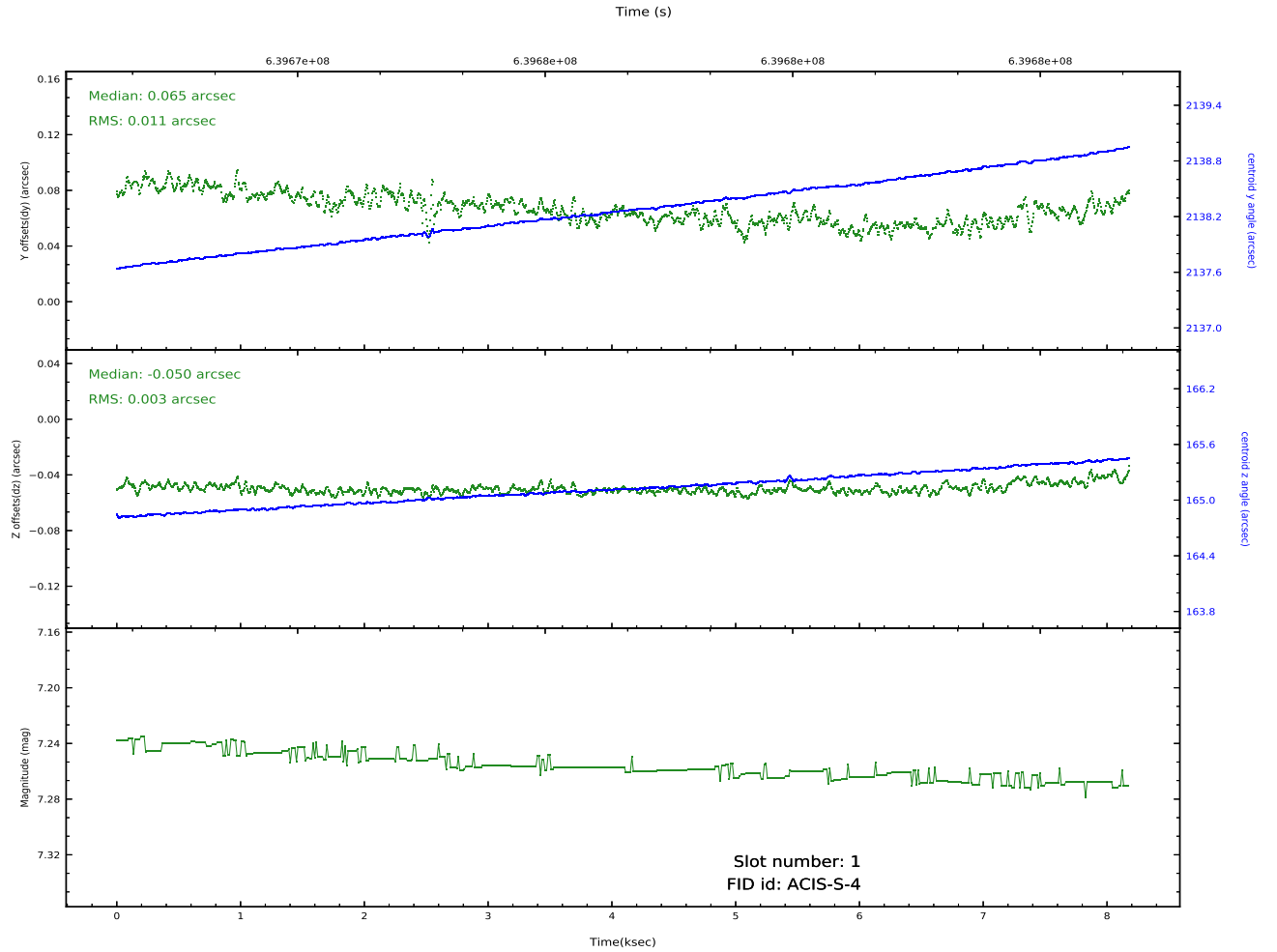
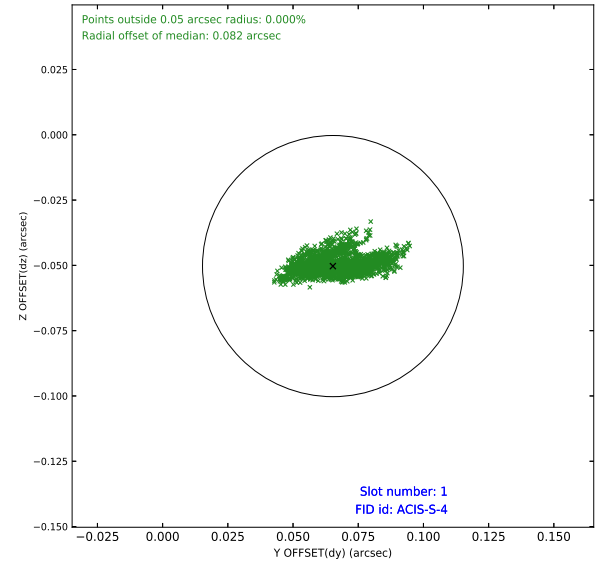
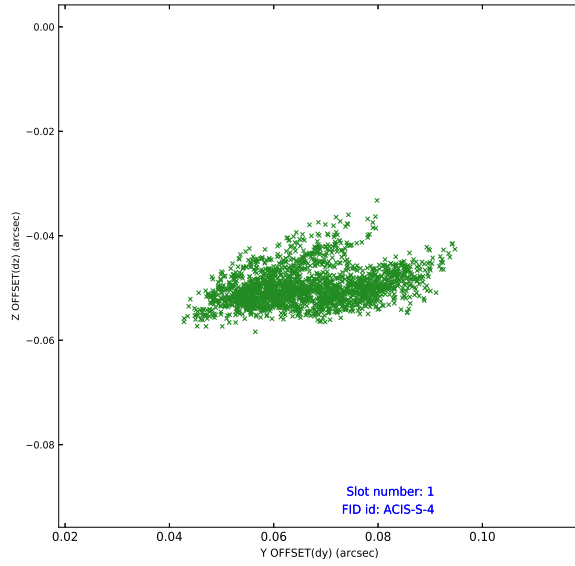


2.5 FID Slots

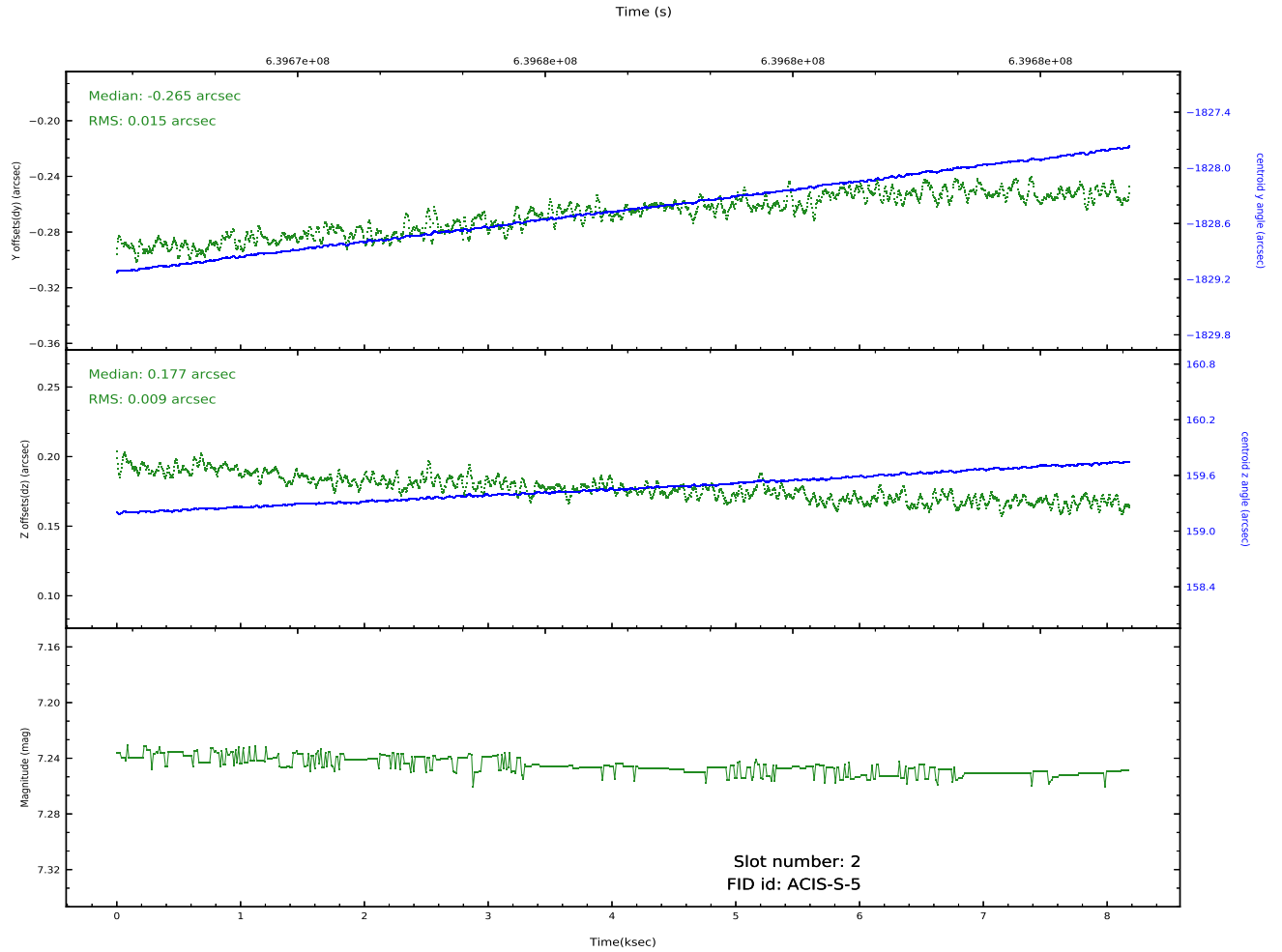
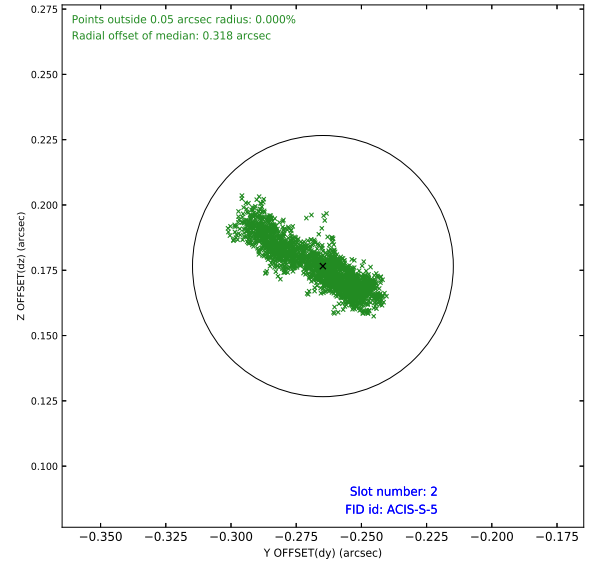
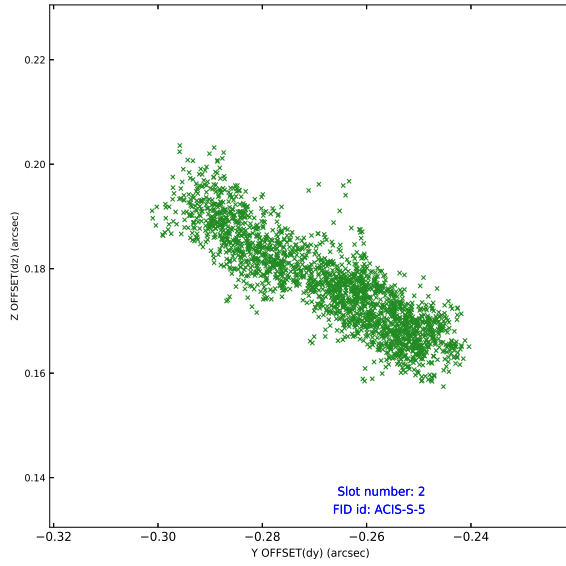
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2020.10.26
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	7.9101602691412

A.2 Comments